

Customer No.: 31561
Application No.: 10/710,267
Docket No.: 13435-US-PA

AMENDMENTS

To the Claims:

Claim 1 (original) A method of fabricating a light guide plate, comprising the steps of:
providing a thin film having a transfer material layer thereon;
providing a molding machine having a cavity therein;
disposing the thin film inside the molding machine such that at least a portion of the transfer material layer is located within the cavity; and
forming a light guide plate body inside the cavity such that the transfer material layer is transferred on the light guide plate body.

Claim 2 (original) The method of claim 1, wherein the transfer material layer comprises a light-scattering patterned layer.

Claim 3 (original) The method of claim 1, wherein a step of forming the transfer material layer over the thin film comprises:

forming a light-reflecting layer over the thin film; and
forming a light-scattering patterned layer over the light-reflecting layer.

Claim 4 (original) The method of claim 3, wherein the light guide plate body comprises a light output surface, a bottom surface, at least a light incident surface and a plurality of side surfaces, wherein the light incident surface and the side surfaces are adjacent to and positioned between the bottom surface and the light output surface, and the light-scattering patterned layer and the light-reflecting layer are transferred on the bottom surface.

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Claim 5 (original) The method of claim 4, wherein the light-reflecting layer is further transferred on the side surfaces.

Claim 6 (original) The method of claim 1, wherein the step of disposing the thin film inside the molding machine comprises applying a tape-spooling mechanism to reel the thin film over the molding machine so that at least a portion of the transfer material layer is disposed inside the cavity.

Claim 7 (original) The method of claim 6, wherein the transfer material layer comprises a plurality of patterned blocks so that at least one of the patterned blocks aligns with the cavity after reeling the thin film forward a fixed distance.

Claim 8 (currently amended) A light guide plate, comprising:

a light guide plate body having a light output surface, a bottom surface, at least a light incident surface and a plurality of side surfaces, wherein the light incident surface and the side surfaces are adjacent to and positioned between the bottom surface and the light output surface; and

a transfer material layer disposed on the bottom surface, wherein the transfer material layer and the light guide plate body are formed into a unity, and there is substantially no gap between the transfer material layer and the light guide plate body.

Claim 9 (canceled) .

Claim 10 (original) The light guide plate of claim 8, wherein the transfer material layer comprises a light-scattering patterned layer.

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Claim 11 (currently amended) The light guide plate of claim 8, wherein the transfer material layer further comprises:

- a light-scattering patterned layer disposed on the bottom surface; and
- a light-reflecting layer disposed over the bottom surface and covering the light-scattering patterned layer.

Claim 12 (original) The light guide plate of claim 11, wherein the light-reflecting layer is disposed on the side surfaces.